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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,821	11/05/2004	Hanns-Peter Muller	CS8248/LeA 35,595	8283
34469 7590 07/13/2007 BAYER CROPSCIENCE LP Patent Department			EXAMINER	
			GEORGE, KONATA M	
2 T .W. ALEXANDER DRIVE RESEARCH TRIANGLE PARK, NC 27709		09	ART UNIT	PAPER NUMBER
			1616	
		·	MAIL DATE	DELIVERY MODE
		•	07/13/2007	PAPER .

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/500,821	MULLER ET AL.				
		Examiner	Art Unit				
		Konata M. George	1616				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,							
WHIC - Exter after - If NC - Failu Any	CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (16(a)). In no event, however, may a reply be the apply and will expire SIX (6) MONTHS from the august the application to become ABANDON	N. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).				
Status	•						
1)⊠	Responsive to communication(s) filed on <u>15 August 2006</u> .						
	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)🛛	Claim(s) <u>9-16</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
· —	5) Claim(s) is/are allowed.						
• —	Claim(s) <u>9-16</u> is/are rejected.						
-	Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
ا (٥	are subject to restriction and/or	election requirement.					
Applicati	ion Papers						
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11)	The path of declaration is objected to by the Ex	ammer. Note the attached offic	·				
~	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
			•				
Attachmen	nt(s)	_					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summar Paper No(s)/Mail [					
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PTO-946) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Informal 6) Other:					

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#### **DETAILED ACTION**

Claims 9-16 are pending in this application.

#### **Action Summary**

1. The rejection of claims 9-16 under 35 U.S.C. 103(a) over Botts et al. is being maintained for the reasons stated in the office action dated June 15, 2006.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 2. Claims 9-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Botts et al. (WO 99/00013).

Applicants claim a powder formulation having a particles size of under 125 microns consisiting of a(a) one or more agrochemical active compounds, (b) one or

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more biodegradable hydroxyl-containing polyesters and (c) optionally one or more additives.

# Determination of the scope and content of the prior art (MPEP §2141.01)

Botts et al. teach microparticles containing agricultural active ingredients entrapped in polymeric matrixes to form microparticles having a diameter range from about 0.2 to about 200 microns and that the formulation is applied to soil, seeds, plants, etc. (abstract). The microparticles comprises about 1 to about 50% by weight of the active agent and about 50 to about 99% by weight of the polymer matrix (page 2, lines 14-19). Page 3, lines 7-23 discloses examples of the polymer of which polyesters are mentioned. Page 13, lines 5-16 teach examples of the active ingredient of which the insecticide imidacloprid is mentioned. Page 16, lines 17-27 teach that inactive ingredients such as solvents, dispersant, adjuvants, etc. can be included in the formulation. Page 17, lines 8-28 teach a method of producing the particles by producing an oil phase, a water phase, and mixing the two phases to form an emulsion by stirring, homogenization or sonication, then the emulsion is stirred until the organic solvent has evaporated, then isolating the microparticles by washing, filtering and drying the microparticles in air.

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# Ascertainment of the difference between the prior art and the claims (MPEP §2141.02)

Botts et al. do not teach the specific polyester as claimed or the temperature of the homogenization process.

# Finding of prima facie obviousness Rational and Motivation (MPEP §2142-2143)

It is the position of the examiner that since Botts et al. disclose the use of the polyester in a broad sense, the specific polyester would fall within the scope of the invention. It would have been obvious to one of ordinary skill in the art at the time the invention was made through routine experimentation to determine the appropriate homogenization temperature to achieve the desired powder formulation of the claimed invention.

### Response to Arguments

3. Applicant's arguments filed August 15, 2006 have been fully considered but they are not persuasive.

Applicants argue that Botts et al. do not give details about which polyester would be suitable. It is the position of the examiner that since Botts et al. teach the broad category of polyesters, it can be assumed that all of the different types of polyesters would be suitable in the matrix and therefore would be obvious. Applicants argue that the process of making the composition is a melt process and that Botts et al. is directed

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to an emulsion process. Page 17, line 11 of Botts et al. teaches that the microparticles can be made by a hot melt microencapsulation.

### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 9-12 and 14-16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 9 discloses in (b) one or more biodegradable hydroxyl-containing polyesters having the functional language as claimed. The claims provide little guidance in the way of selecting a particular compound, or narrowing the range of candidates in order to find a suitable compound without the need for undue experimentation.

#### Conclusion

5. Claims 9-16 remain rejected.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Telephone Inquiries

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Konata M. George, whose telephone number is 571-

272-0613. The examiner can normally be reached from 8AM to 6:30PM Monday to

Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Johann Richter, can be reached at 571-272-0646. The fax phone numbers

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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you have question on access to the Private Pair system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Konata M. George Patent Examiner

Technology Center 1600

Johann R. Richter

Supervisory Patent Examiner

Technology Center 1600